

Fig. 1

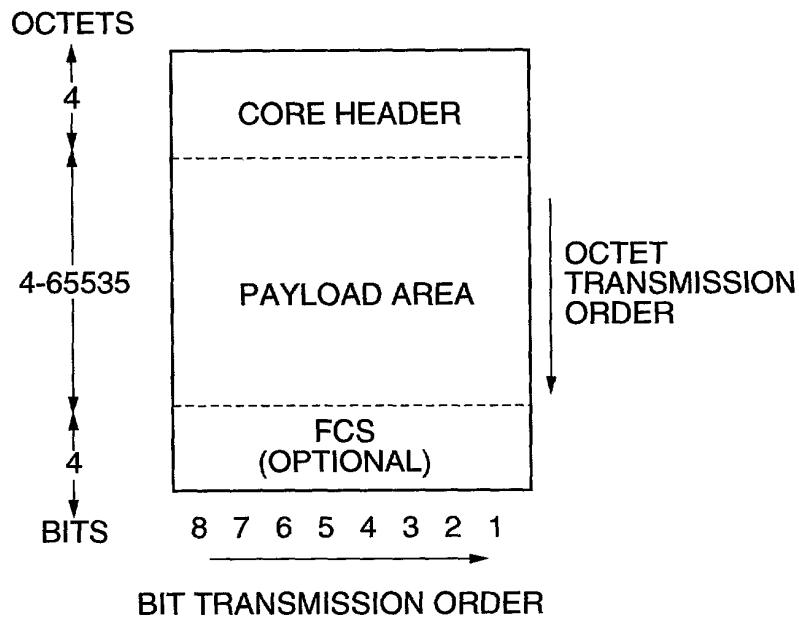


Fig. 2

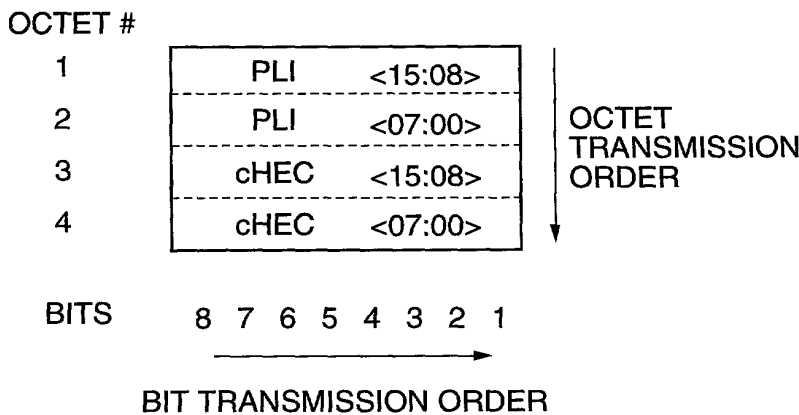


Fig. 3

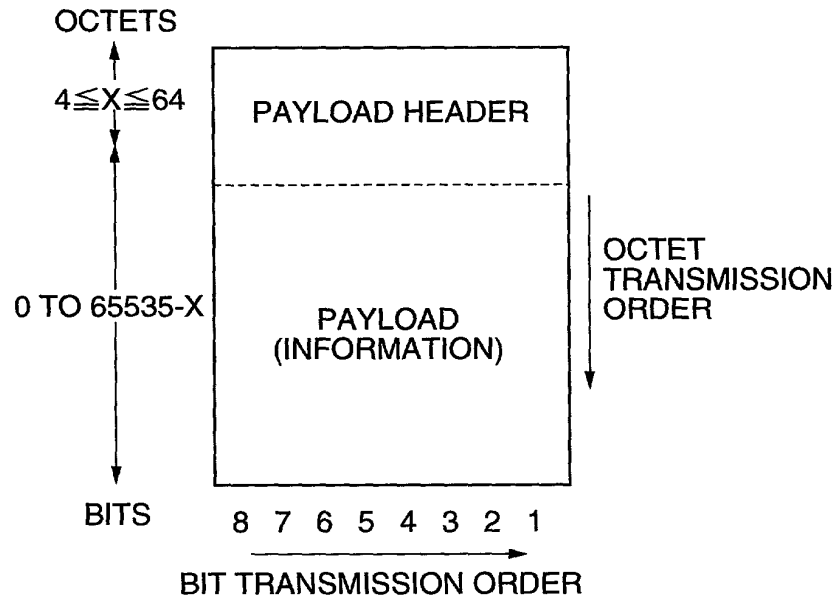


Fig. 4

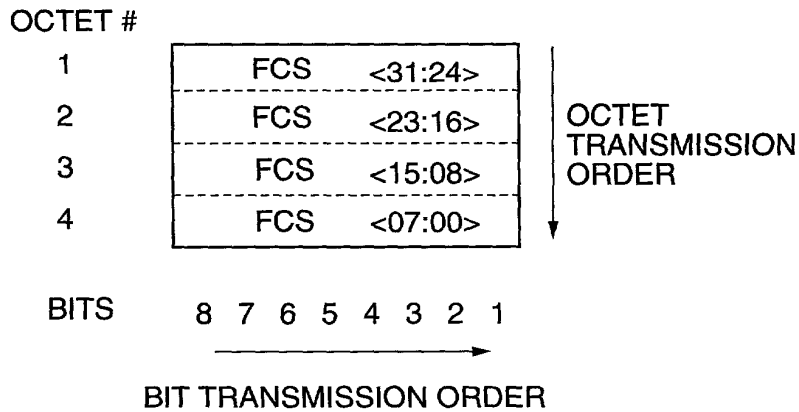


Fig. 5

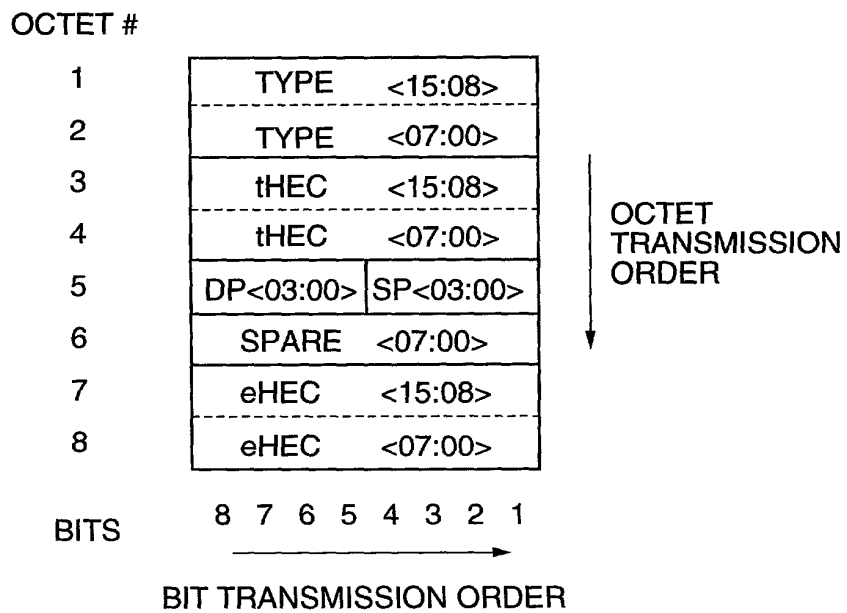


Fig. 6

OCTET #

1	TYPE	<15:08>
2	TYPE	<07:00>
3	tHEC	<15:08>
4	tHEC	<07:00>
5	DP<03:00>	SP<03:00>
6	SPARE	<07:00>
7	SPARE<03:00>	DE<03:00>
8	TTL	<07:00>
9	DST MAC	<47:40>
10	DST MAC	<39:32>
11	DST MAC	<31:24>
12	DST MAC	<23:16>
13	DST MAC	<15:08>
14	DST MAC	<07:00>
15	SRC MAC	<47:40>
16	SRC MAC	<39:32>
17	SRC MAC	<31:24>
18	SRC MAC	<23:16>
19	SRC MAC	<15:08>
20	SRC MAC	<07:00>
21	eHEC	<15:08>
22	eHEC	<07:00>

OCTET
TRANSMISSION
ORDER

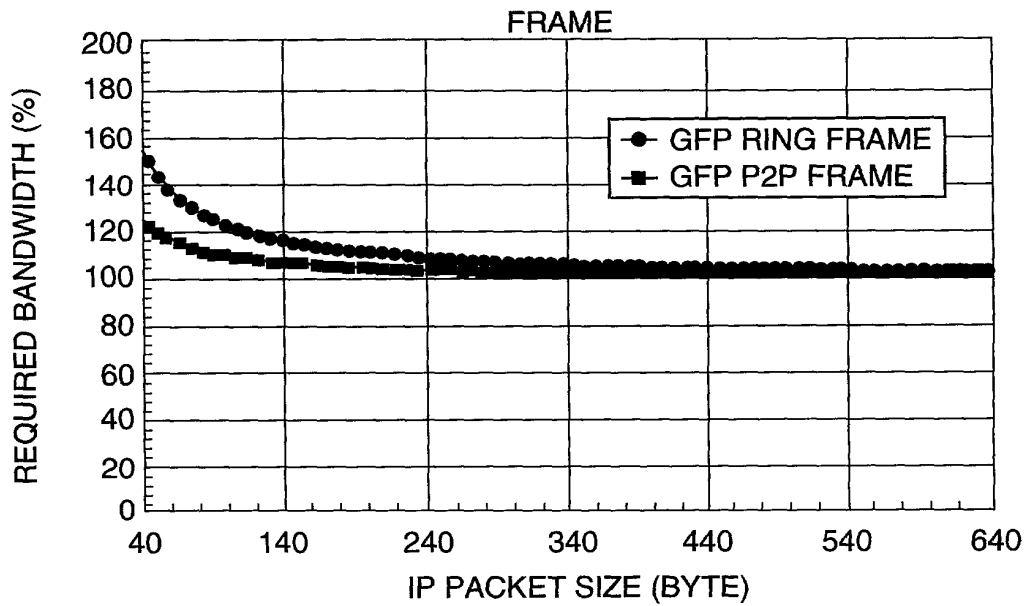
BITS

8 7 6 5 4 3 2 1

BIT TRANSMISSION ORDER

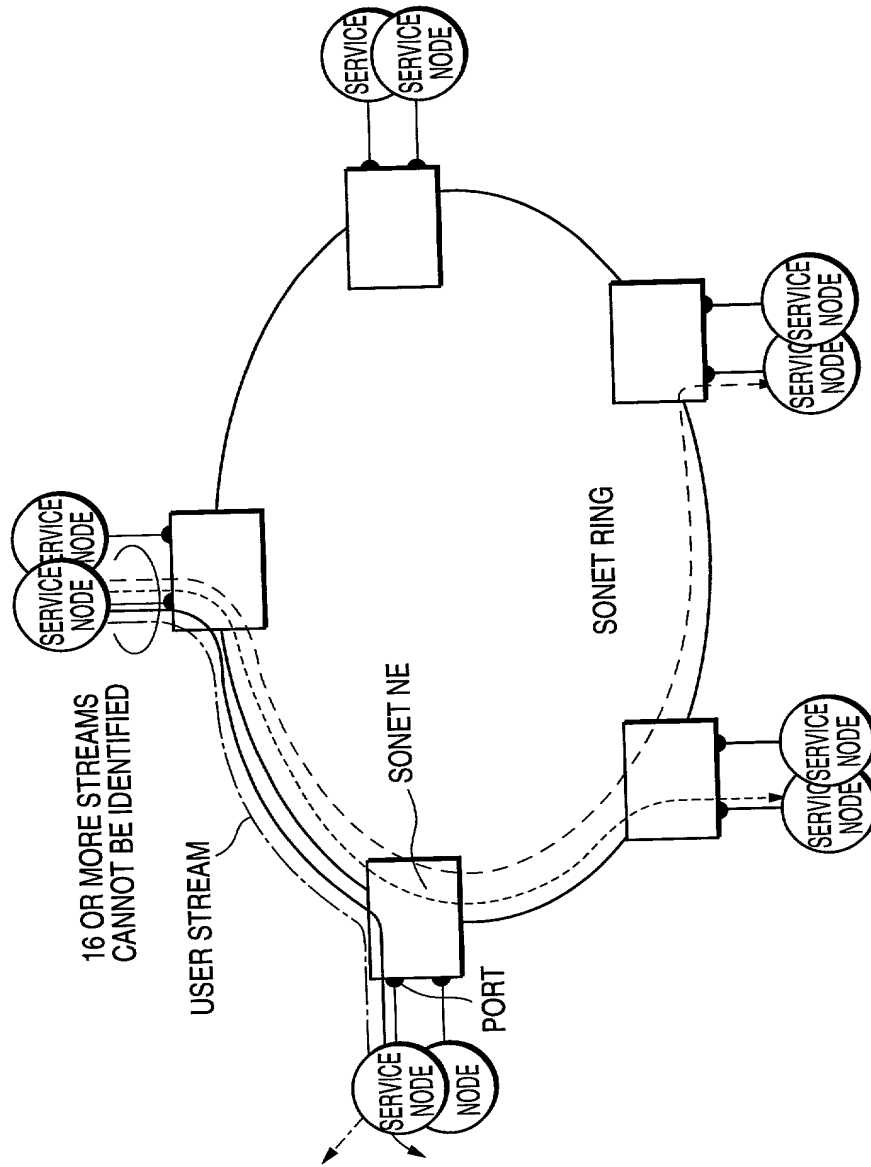
Fig. 7

REQUIRED BANDWIDTH WHEN TRANSMITTING PPP FRAME INTO GFP



OVERHEAD BY RING AND P2P FRAME FOR HDLC

Fig. 8



USER STREAM MULTIPLEXING ON SONET RING

Fig. 9

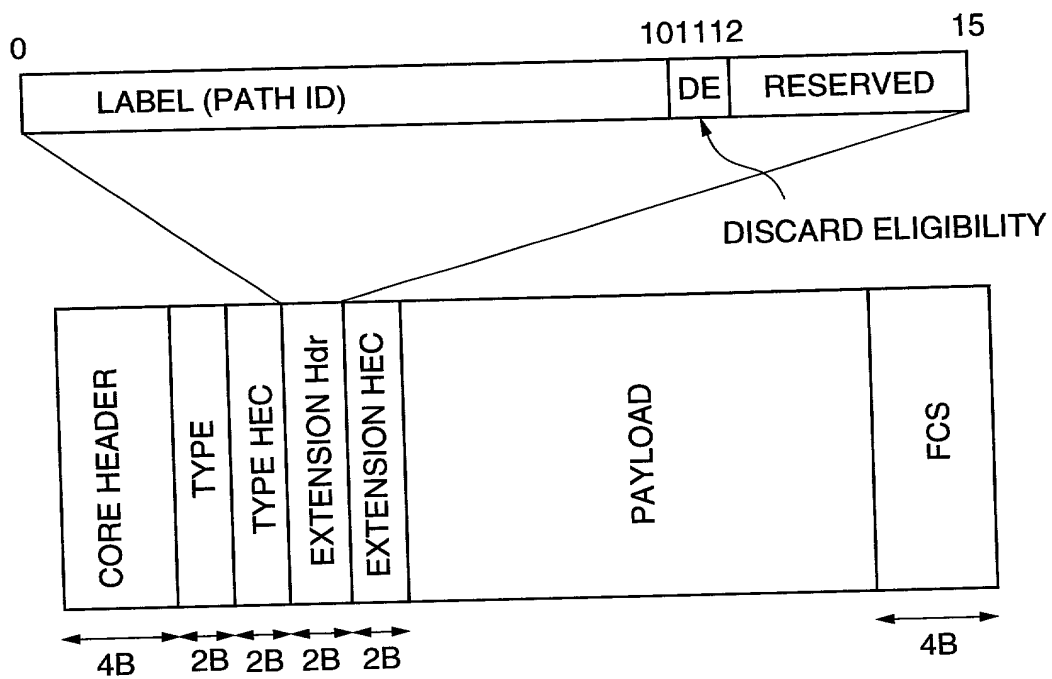


Fig. 10

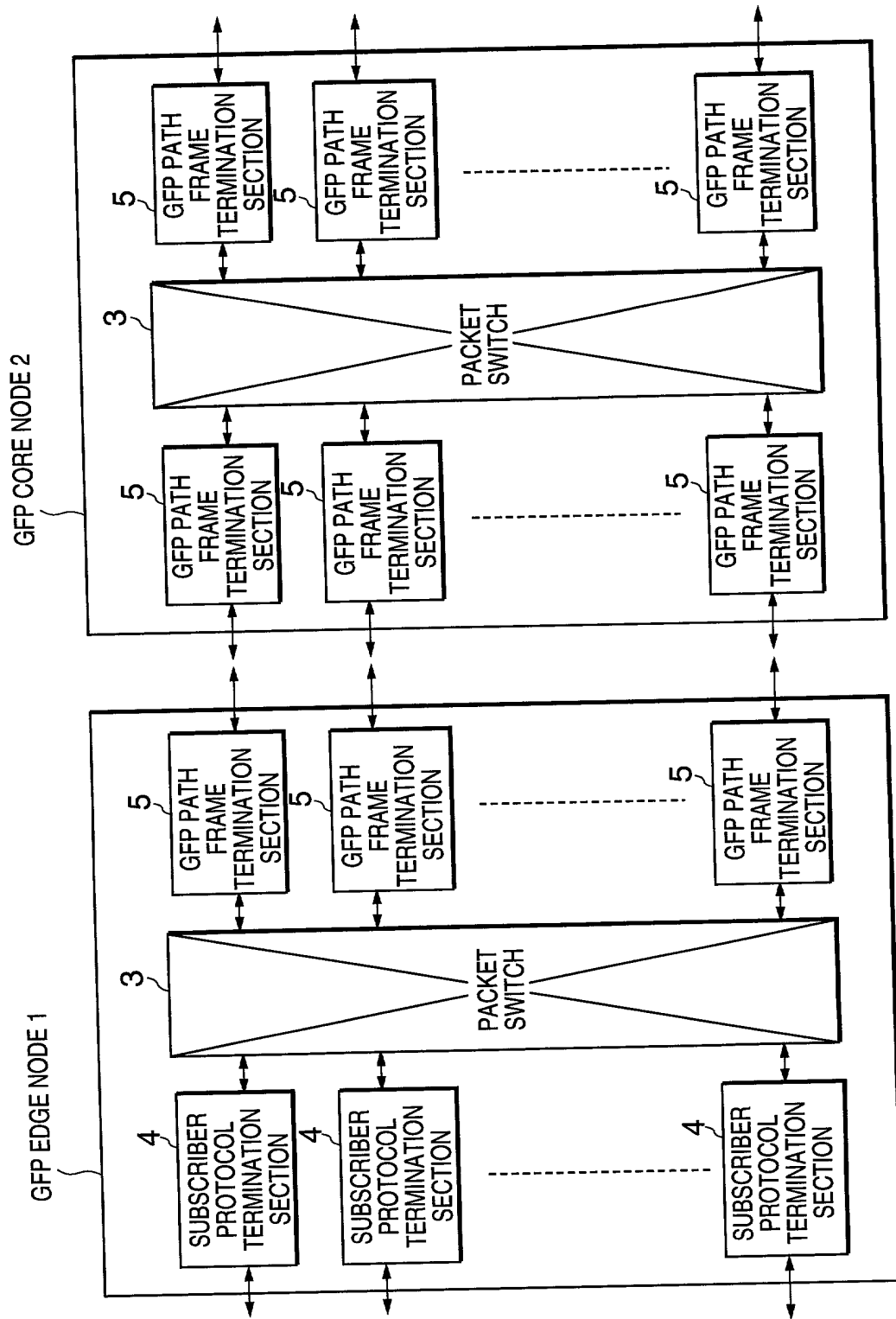


Fig. 11

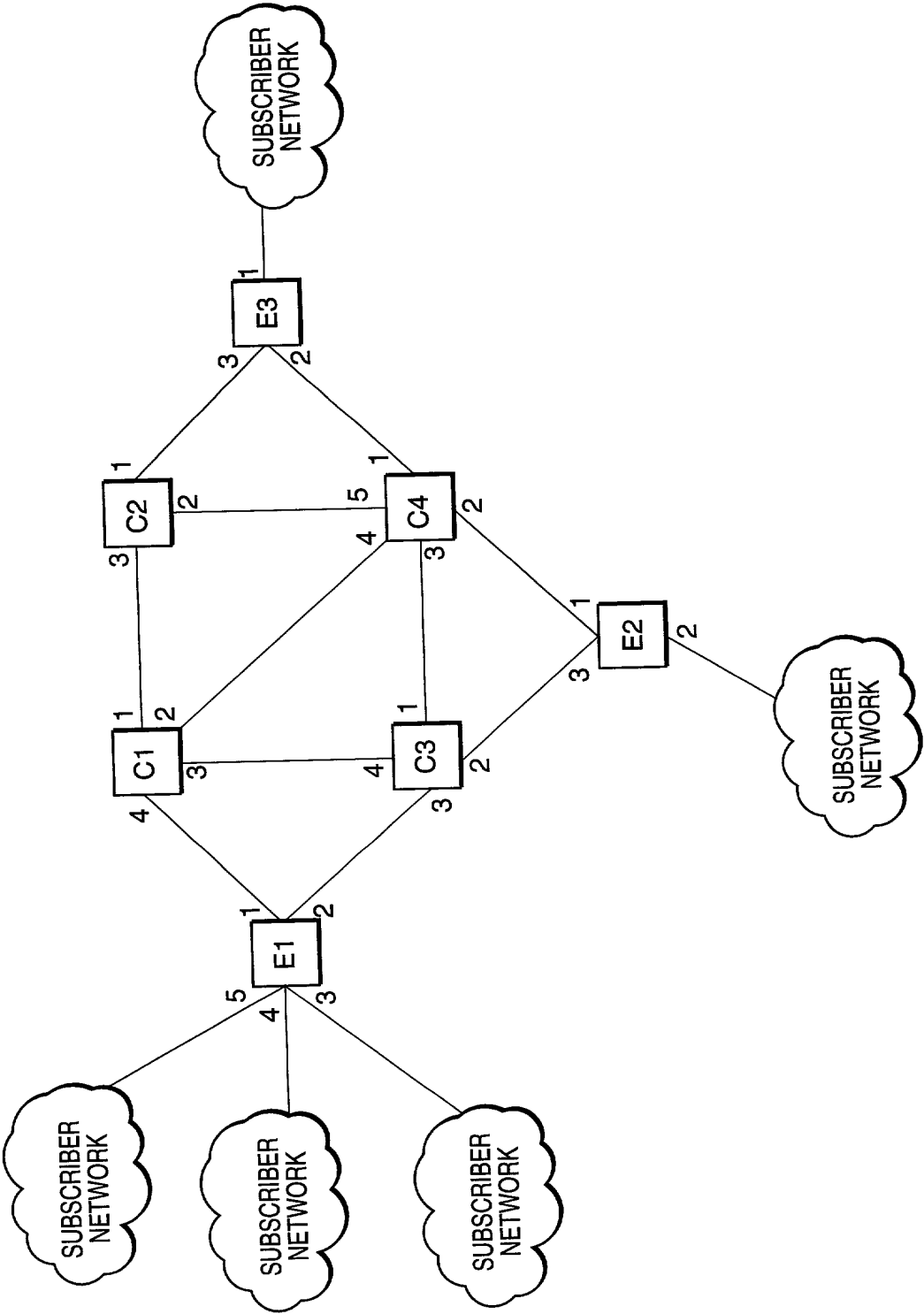


Fig. 12

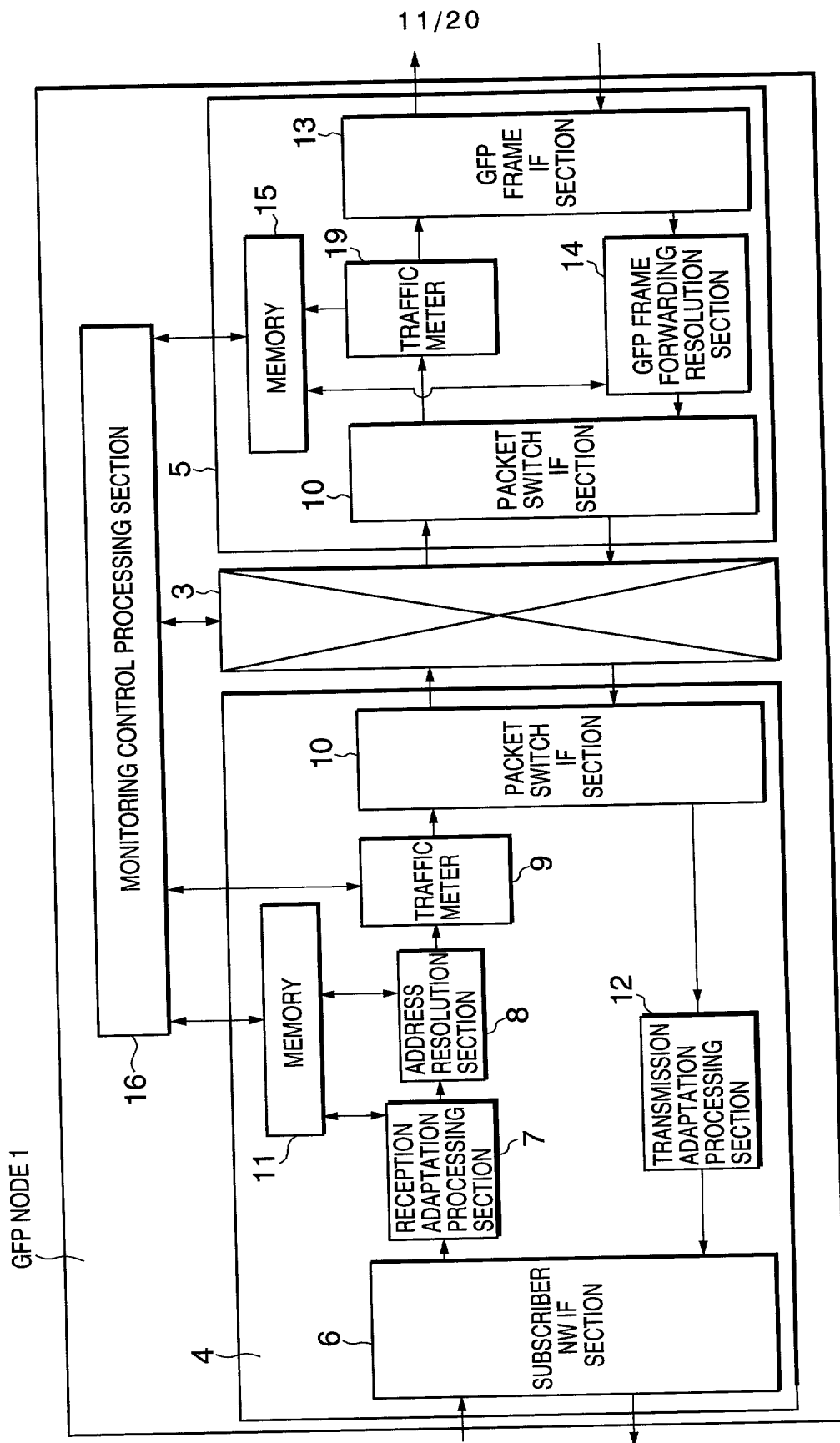


Fig. 13

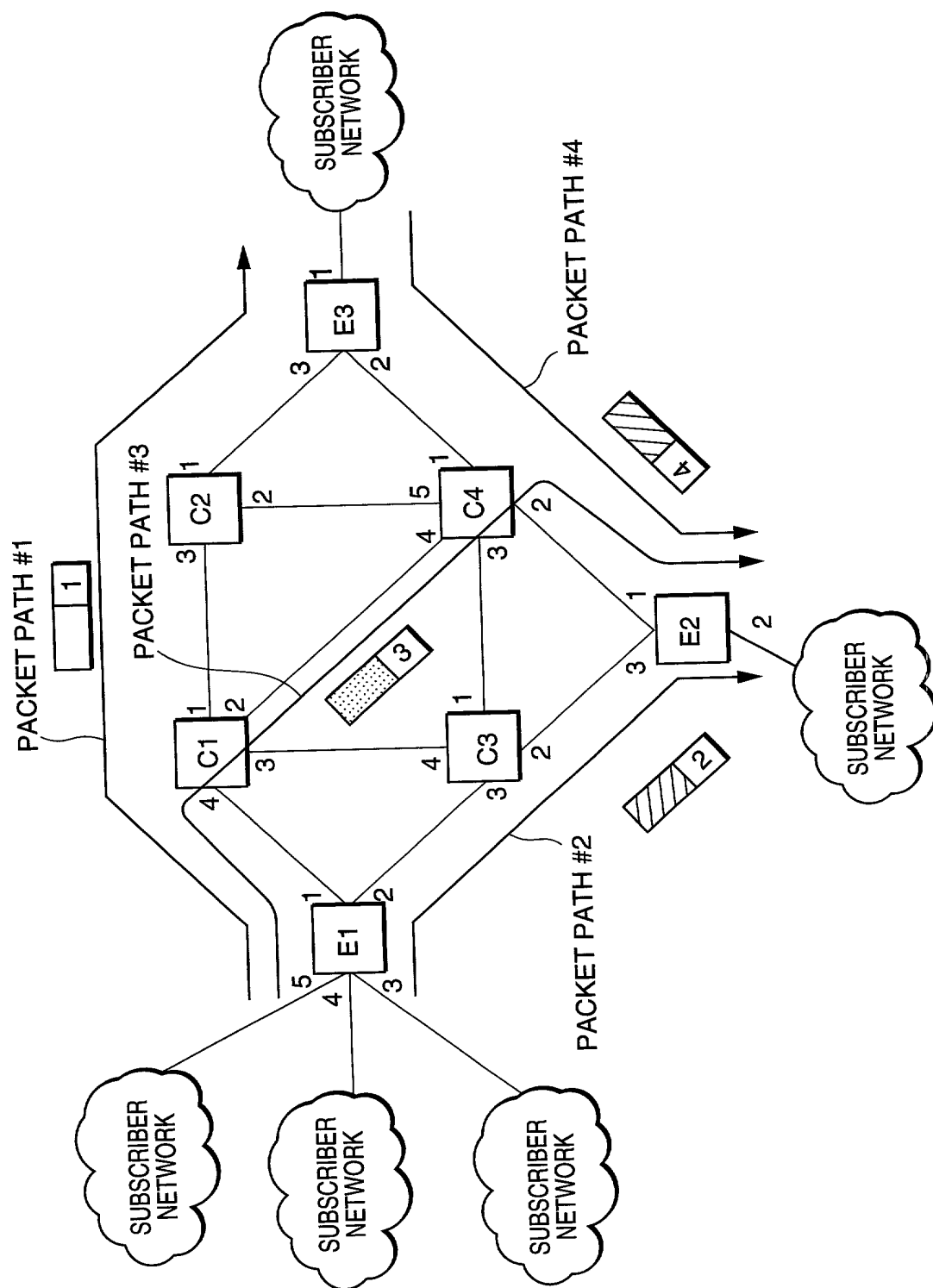


Fig. 14

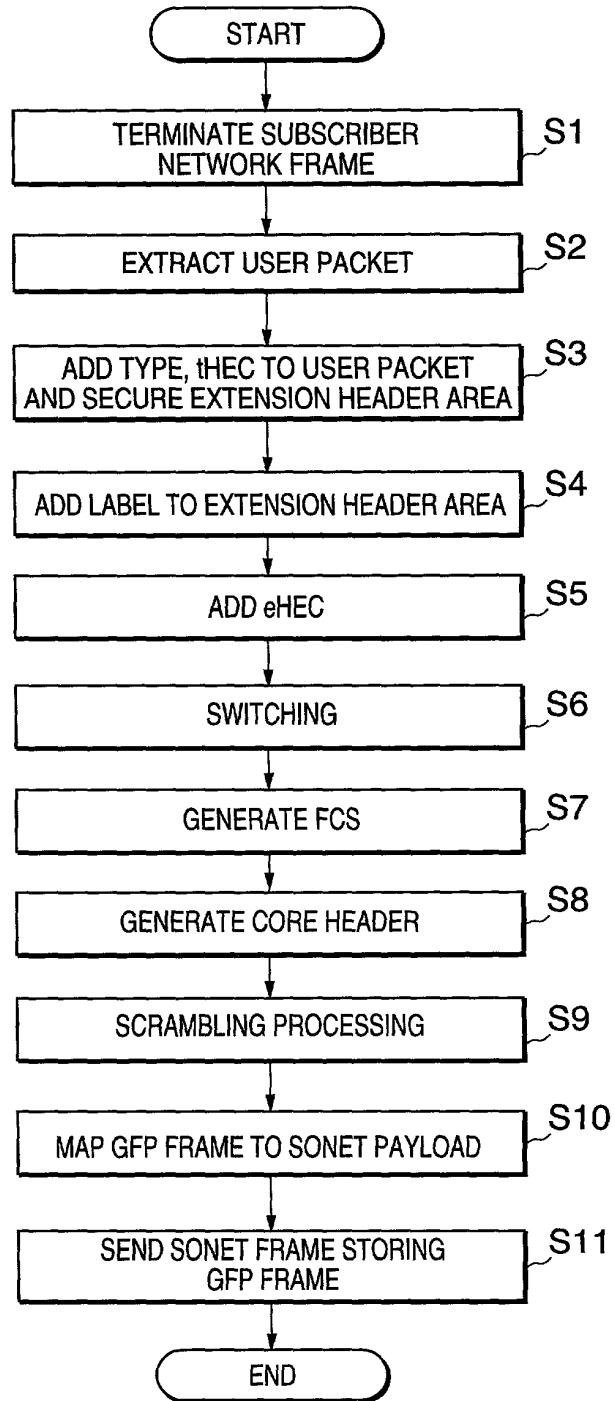


Fig. 15

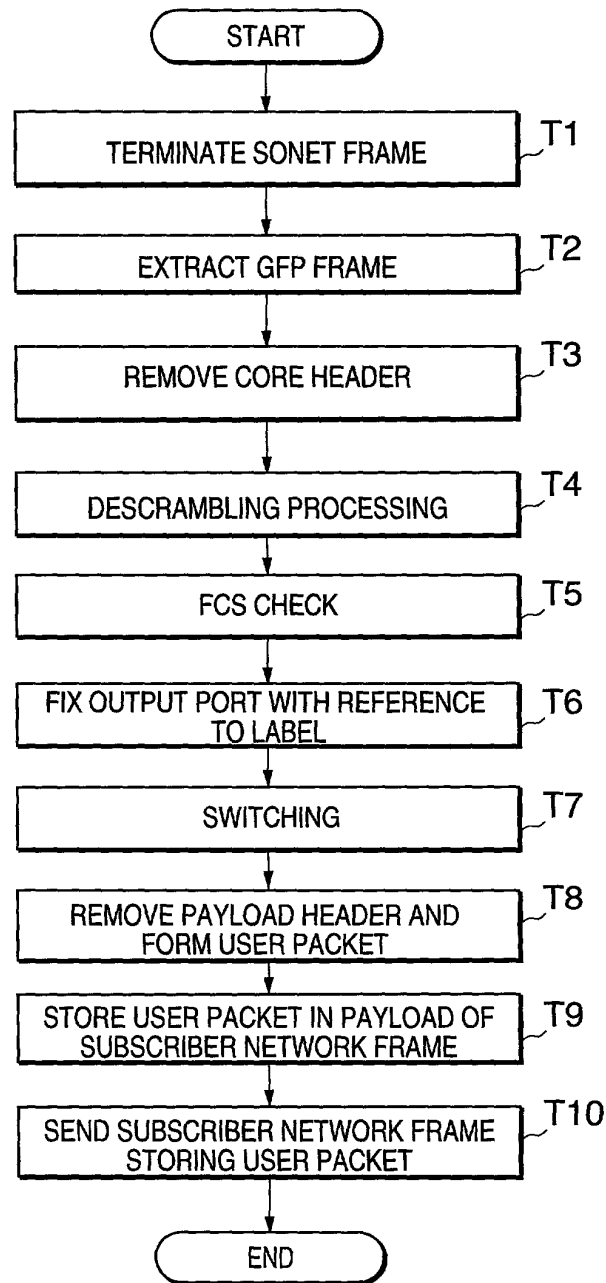


Fig. 16

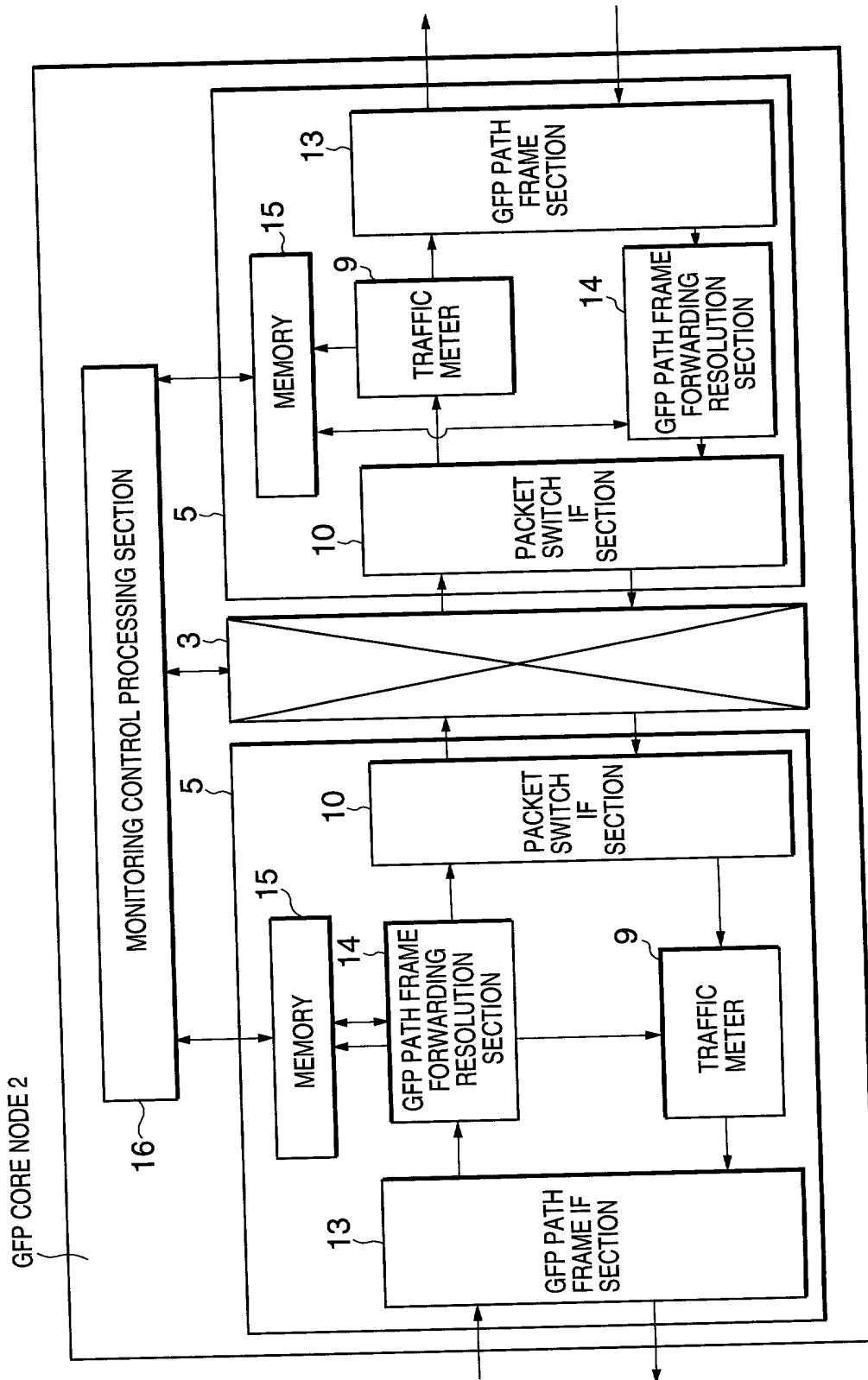


Fig. 17

GFP EDGE NODE E1

ADDRESS CONVERSION TABLE

(a)

USER DEST ADDR	SONET DEST ADDR	PATH ID	INGRESS PORT	EGRESS LABEL	EGRESS PORT
A	E3	1	5	1	1
B					
C	E2	2	3	2	2
D	E2	3	4	3	1

GFP CORE NODE C1

TRANSFER TABLE

(b)

PATH ID	INGRESS LABEL	EGRESS PORT
1	1	1
3	3	2

GFP CORE NODE C2

TRANSFER TABLE

(c)

PATH ID	INGRESS LABEL	EGRESS PORT
1	1	1

GFP CORE NODE C3

TRANSFER TABLE

(d)

PATH ID	INGRESS LABEL	EGRESS PORT
2	2	2

GFP CORE NODE C4

TRANSFER TABLE

(e)

PATH ID	INGRESS LABEL	EGRESS PORT
3	3	2
4	4	2

GFP EDGE NODE E2

TRANSFER TABLE

(f)

PATH ID	INGRESS LABEL	EGRESS PORT
2	2	2
3	3	2
4	4	2

GFP EDGE NODE E3

TRANSFER TABLE

(g)

PATH ID	INGRESS LABEL	EGRESS PORT
1	1	1

Fig. 18

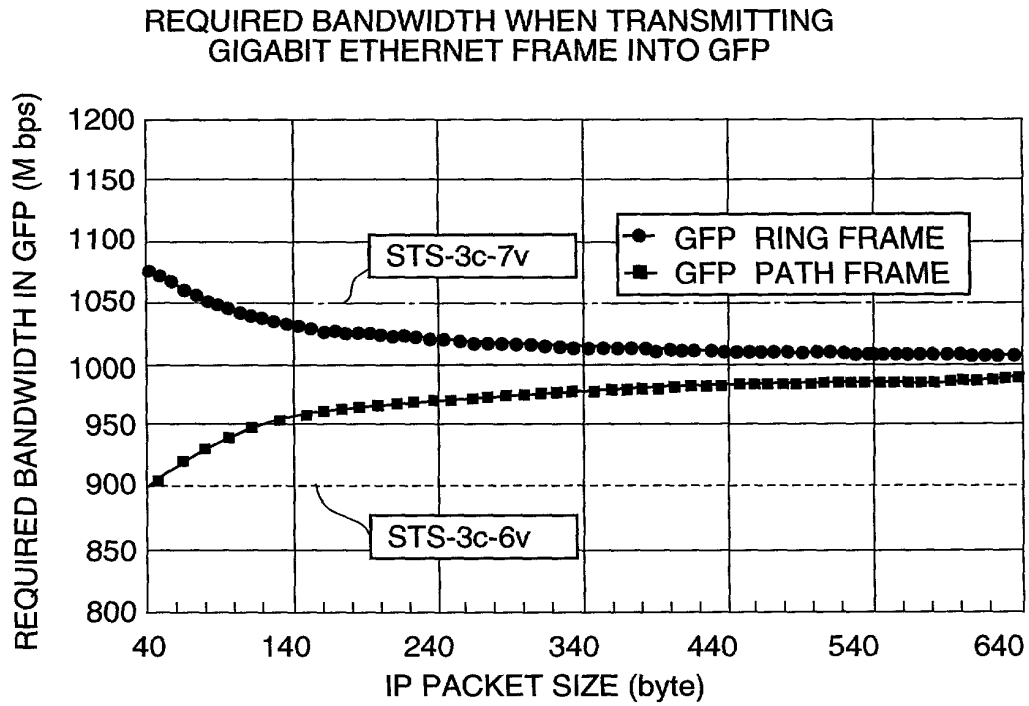


Fig. 19

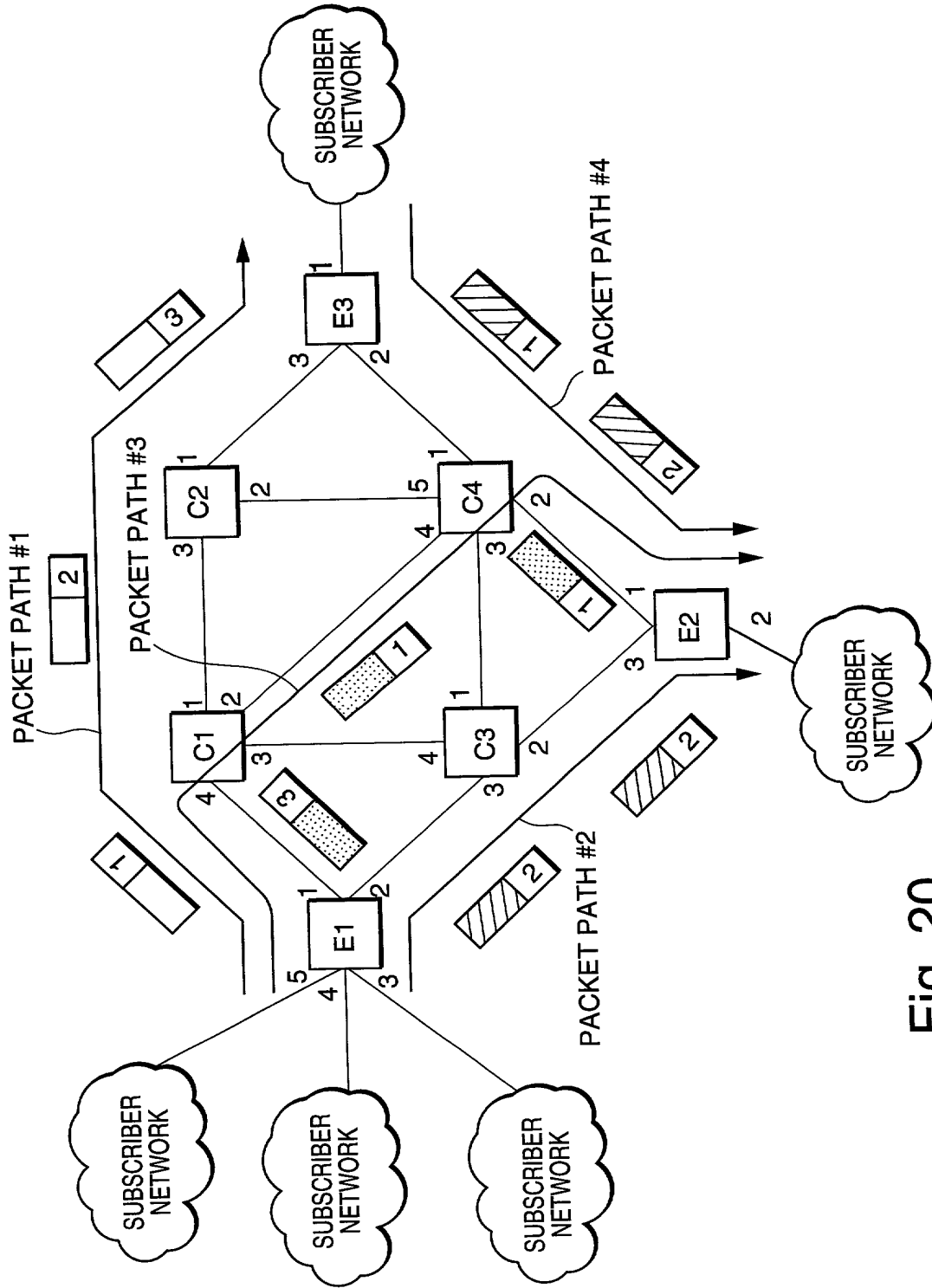


Fig. 20

GFP EDGE NODE E1

ADDRESS CONVERSION TABLE

(a)

USER DEST ADDR	SONET DEST ADDR	PATH ID	INGRESS PORT	EGRESS LABEL	EGRESS PORT
A B	E3	1	5	1	1
C	E2	2	3	2	2
D	E2	3	4	3	1

GFP CORE NODE C1

TRANSFER TABLE

(b)

PATH ID	INGRESS LABEL	INGRESS PORT	EGRESS LABEL	EGRESS PORT
1	1	4	2	1
3	3	4	1	2

GFP CORE NODE C4

TRANSFER TABLE

(c)

PATH ID	INGRESS LABEL	INGRESS PORT	EGRESS LABEL	EGRESS PORT
3	1	4	1	2
4	1	1	2	2

Fig. 21

	REQUIRED BANDWIDTH	
	PATH FRAME	RING FRAME
MAXIMUM(IP=40byte)	735Mbps	906Mbps
STS-1(49.92Mbps)	STS-1-15v(748.8Mbps)	STS-1-18v(898.56Mbps)
STS-3c(149.76Mbps)	STS-3c-5v(748.8Mbps)	STS-3c-6v(898.56Mbps)

Fig. 22